

Abstract

Provided is a process for preparing a smooth and glossy surfaced paper web. The process comprises subjecting the paper web to shear by using calender rolls driven at different speeds or calender rolls with different diameters. The resulting paper has a totally different structure than the original paper, as it has a much smaller void structure and a much higher degree of bonding between the elements of the sheet. The process is particularly applicable to improving the electrical insulation properties of an aramid paper web.